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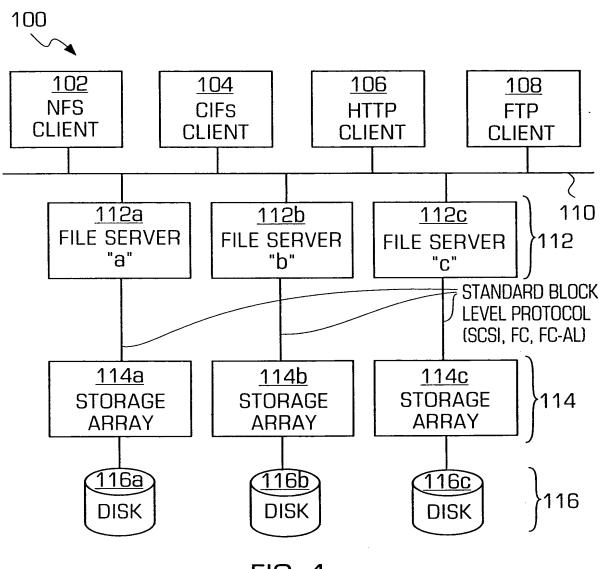


FIG. 1 (RELATED ART)

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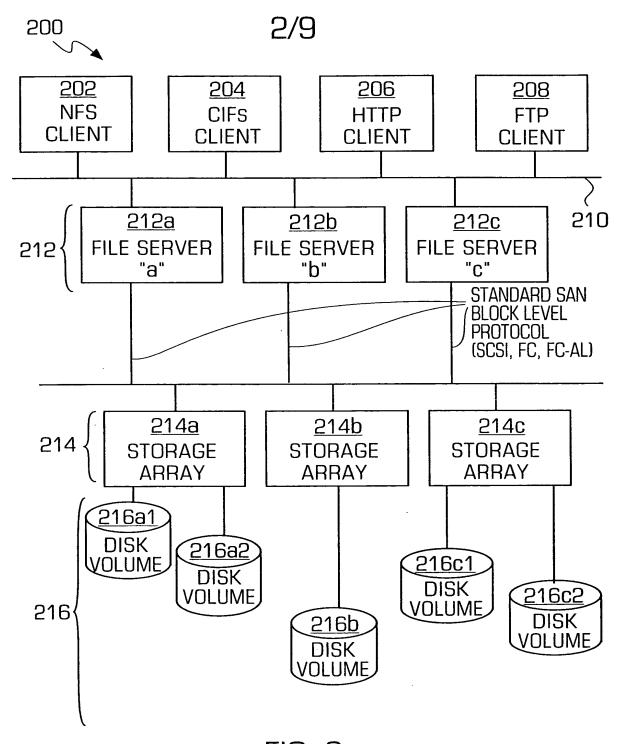
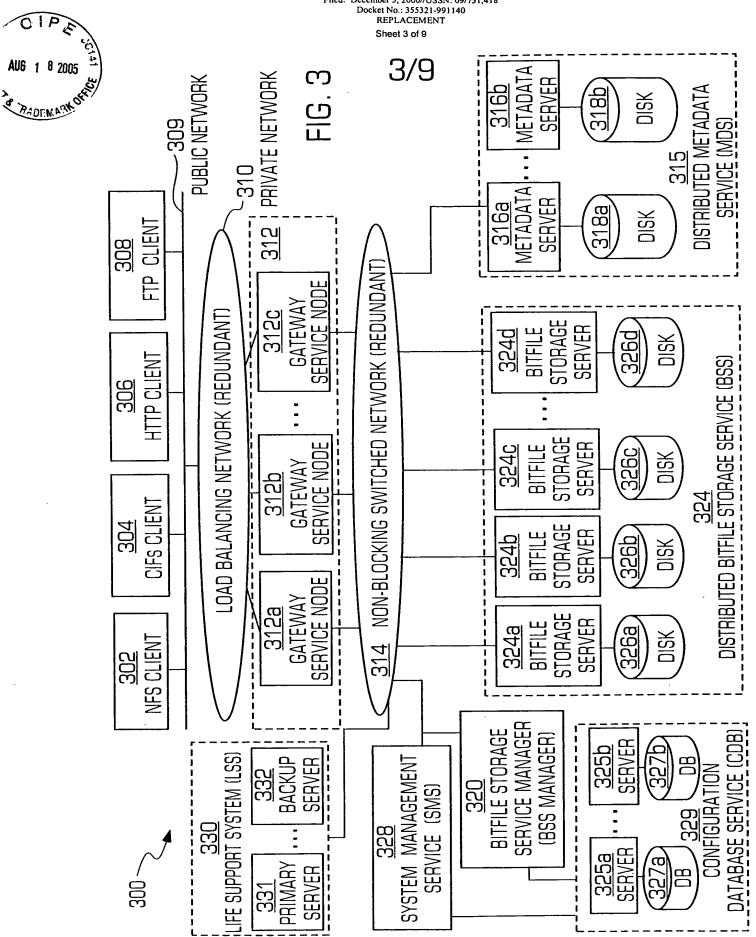
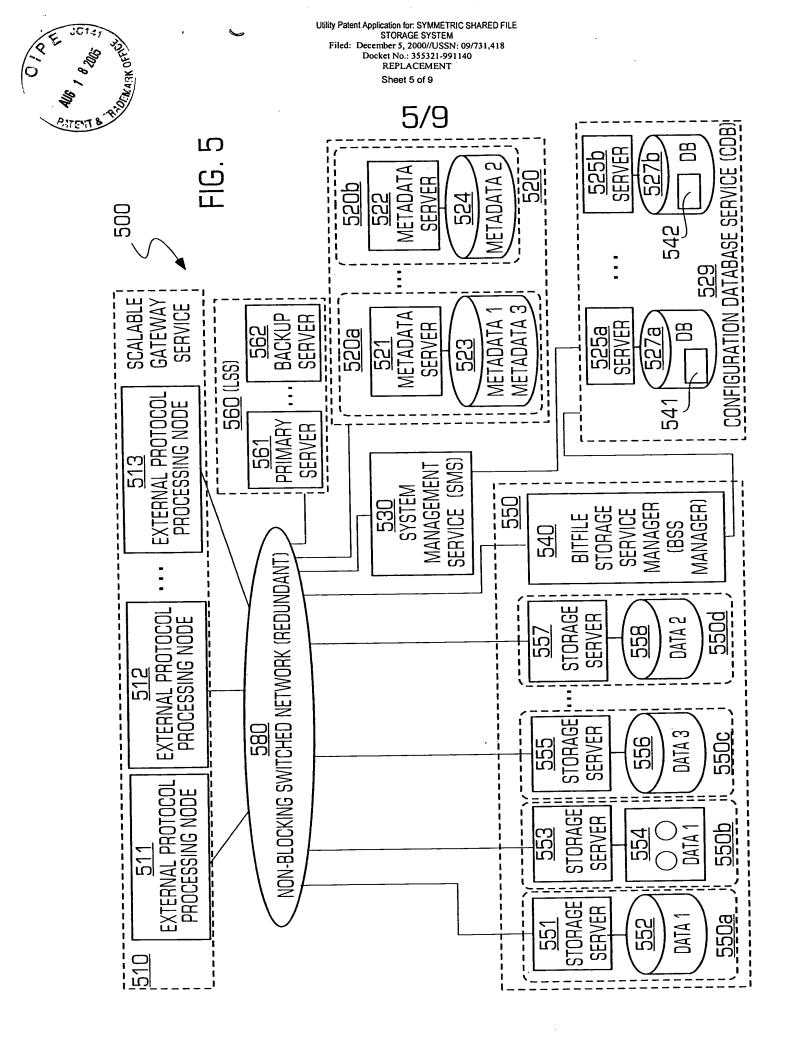


FIG. 2 (RELATED ART)



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Filed: December 5, 2000//USSN: 09/731,418 Docket No.: 355321-991140 REPLACEMENT Sheet 4 of 9 4/9 SCALABLE METADATA SERVICE (MDS) METADATA SERVER MDS DB 432 420 SCALABLE GATEWAY SERVICE METADATA DATABASE SERVICE (CDB) SYSTEM MANAGEMENT SERVER MDS DB) 425b 427b SERVER 98 421 431 SERVICE (SMS) CONFIGURATION EXTERNAL PROTOCOL 450 429 PROCESSING NODE BACKUP ([SS])SERVER SERVER 425a 427a 462 413 8 460 PRIMARY SERVER LOAD BALANCING NETWORK (REDUNDANT 461 SERVICE MANAGER BITFILE STORAGE (BSS MANAGER) **EXTERNAL PROTOCOL** 470 PROCESSING NODE NON-BLOCKING SWITCHED NETWORK (REDUNDANT 412 405 STORAGE SERVER STORAGE DEVICE SCALABLE STORAGE SERVICE 443 493 EXTERNAL PROTOCOL PROCESSING NODE 440 480 STORAGE SERVER STORAGE DEVICE 442 492 FILE/BLOCK-ORIENTED PROPRIETARY PROTOCOL ≅ STORAGE SERVER STORAGE DEVICE 410 441 491





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6Ó5 BST

<u>604</u>	<u>606</u>
PHYSICAL IDENTIFIER (SERVER, DEVICE)	FILE ID

FIG. 6A

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<u>614</u>	<u>616</u>
LOGICAL IDENTIFIER (VOLUME ID)	FILE ID

TABLE

LOGICAL IDENTIFIER	PHYSICAL IDENTIFIER
VOL. 1	(SERVER X, DEVICE X)
VOL. 2	(SERVER Y, DEVICE Y)
•	•
:	:
•	:

FIG. 6B

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TABLE 635

<u>614</u>	<u>616</u>
LOGICAL IDENTIFIER (VOLUME ID)	FILE ID

VOL. ID	MIRRORS
VOL. O	VOL. 1, VOL. 2
•	•
•	•
•	•
•	
•	•
	•

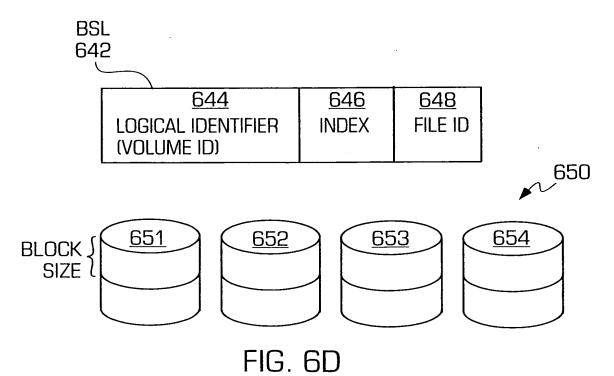
TABLE 633

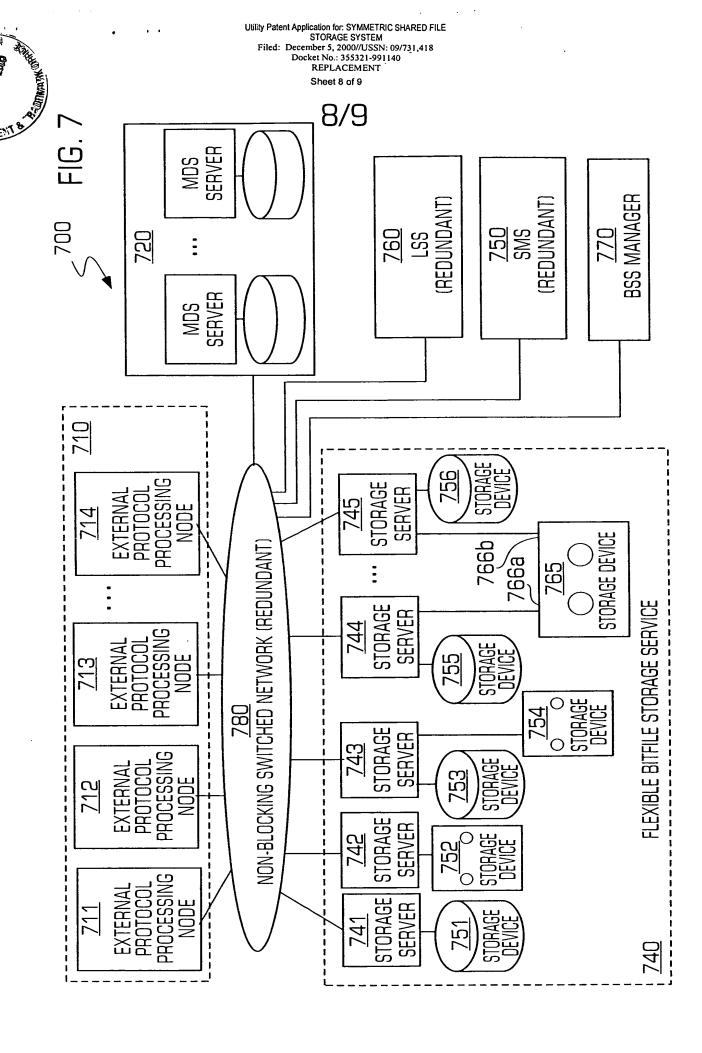
BSL

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LOGICAL IDENTIFIER	PHYSICAL IDENTIFIER
VOL. 1	(SERVER X, DEVICE X)
VOL. 2	(SERVER Y, DEVICE Y)
•	•
<u>.</u>	•
:	
•	•

FIG. 6C





(A) (O)



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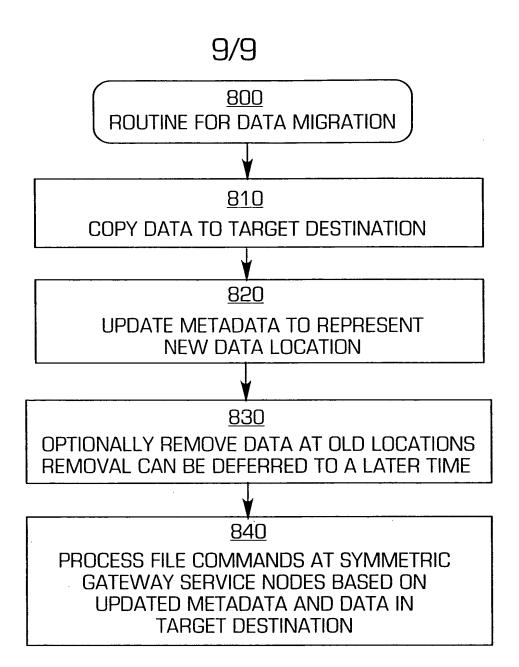


FIG. 8